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PATENT

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicant : Ho-Jin Kweon, et al.
Application No. : 09/963,872
Filed : September 25, 2001
Title : METHOD OF PREPARING POSITIVE ACTIVE MATERIAL FOR
RECHARGEABLE LITHIUM BATTERIES

Grp./Div. : 1762
Examiner : Brian K. Talbot

Docket No. : 47173/DBP/Y35

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6/26/03

RULE 132 DECLARATION

Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

PostOffice Box 7068
Pasadena, CA 91109-7068
June 19, 2003

Commissioner:

I, Ho-Jin Kweon, hereby declare that:

1. I am an Engineer for Samsung Display Devices Co., Ltd., 575, Sin-Dong, Paldal-Ku, Suwon-Si, Kyungki-Do, Korea, Samsung Display Devices Co., Ltd., has an interest in the present application. I hold a Ph.D.(2000) in Chemistry from the Sungkyunkwan University and a B.S. (1987) in Chemistry from the Korea University. I am generally familiar with lithium secondary batteries.

2. I prepared cells containing positive active materials prepared in accordance with Example 1 and Comparative Example 1 of U.S. Patent Application No. 09/963,872. The cells were prepared as described in U.S. Patent Application No. 09/963,872.

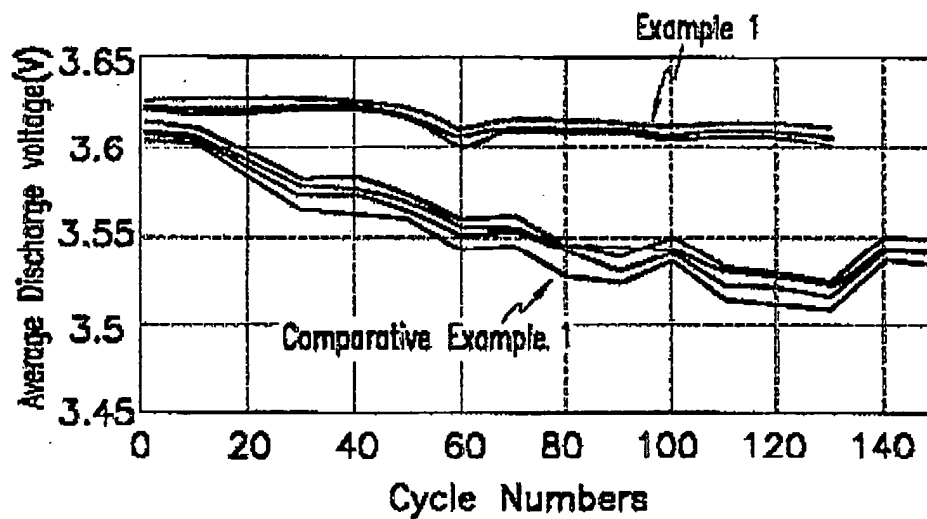
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Application N . 09/963,872

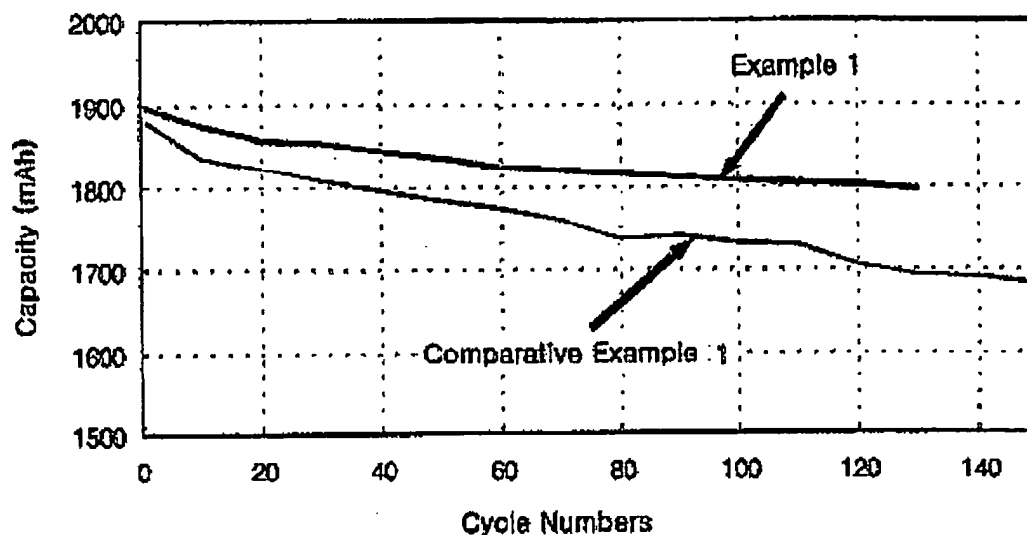
3. The average discharge potentials of the cells containing the positive active materials according to Example 1 and Comparative Example 1 were measured and are presented in Figure 1, below.

Figure 1



4. The capacities of the cells containing the positive active materials according to Example 1 and Comparative Example 1 were measured and are presented in Figure 2, below.

Figure 2



5. As can be seen from Figure 1, the average discharge voltage of the cell containing the positive active material according to Example 1 is substantially higher than that containing the positive active material according to Comparative Example 1. As can be seen from Figure 2, the cycle life of the cell including the positive active material of Example 1 is improved substantially over the cell containing the positive active material of Comparative Example 1. In my opinion, the substantially-improved results of the cell containing the positive active material according to the invention compared to the cell containing the positive active material according to Comparative Example 1 are unexpected.

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6. I declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under Section 1001 of Title 18 of the United States Code, and that such willful false statements may jeopardize the validity of the application or any patent issued thereon.

Date 19 June '03

By


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